

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 27, 2003, 18:02:45 ; Search time 71 Seconds

(without alignments)  
666.253 Million cell updates/sec

Title: US-09-922-895-1

Perfect score: 1854  
Sequence: 1 MTSLDTEFTGTTSTYDY.....LERTSVSPSTAEPLSIIV 355

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Listing first 45 summaries

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1: /SID52/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SID52/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
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21: /SID52/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SID52/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SID52/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1854	100.0	355	17	AAW03377
2	1854	100.0	355	18	AAW31850
3	1854	100.0	355	19	AAW27124
4	1854	100.0	355	18	AAW51745
5	1854	100.0	355	22	AAW80109
6	1854	100.0	355	23	AAE15320
7	1851	99.8	355	17	AAW03376
8	1851	99.8	355	18	AAW10100
9	1851	99.8	355	23	ABB07733
10	1851	99.8	355	23	ABB07240

11	1847	99.6	355	22	ABB56341	Non-endogenous hum
12	1846	99.6	355	19	AAW51744	Human C-C chemok
13	1826.5	98.5	356	18	AAW25943	Human CCR3 chemok
14	1781	96.1	355	17	AAW03378	CC-chemokine recep
15	1781	96.1	355	19	AAW51745	Human C-C chemok
16	1746	94.2	332	23	ABJ03698	Human C-C chemok
17	1717	92.6	355	23	ABJ03698	Human C-C chemok
18	1181.5	63.7	355	15	AAW25749	Monkey C-C chemok
19	1181.5	63.7	355	18	AAW25749	C-C chemokine rece
20	1181.5	63.7	355	18	AAW25751	Human MIP-1 alpha/R
21	1181.5	63.7	355	21	AAW20571	Human C-C chemok
22	1115.5	60.2	355	18	AAW29179	Rat C-C chemokine r
23	1045	56.4	295	22	AAW80106	Human CCR1 protein
24	948	51.1	352	22	AAW79089	Amino acid sequenc
25	947	51.1	360	16	AAW79166	Human monocyte che
26	947	51.1	360	18	AAW58333	Human monocyte che
27	947	51.1	360	22	AAW80108	Human CCR2b protel
28	947	51.1	360	22	AAW07614	Human wild-type CC
29	946	51.0	360	22	AAW07613	Human CCR2-641 pol
30	943.5	50.9	352	18	AAW27125	Macaque chemokine
31	941	50.8	360	22	AAW56340	Non-endogenous hum
32	939.5	50.7	371	19	AAW23834	Human CCR5
33	938.5	50.6	352	18	AAW27407	Human CCR5
34	938.5	50.6	352	18	AAW27122	Human chemokine re
35	938.5	50.6	352	19	AAW23835	Human CCR5 protein
36	938.5	50.6	352	20	AAW88232	HIV-1 co-receptor
37	938.5	50.6	352	22	AAW80111	Human CCR5 protein
38	938.5	50.6	352	22	AAW82948	Human HIV-1 co-rec
39	938.5	50.6	352	22	AAW83354	Human CCR5 protein
40	938.5	50.6	352	22	AAW04321	Human chemokine re
41	938.5	50.6	352	23	ABW08343	Human chemokine (C
42	938.5	50.6	352	23	AAW52828	Human CC chemokine
43	938.5	50.6	439	20	AAW41280	Fusion protein con
44	937.5	50.6	352	22	AAW07039	Human G-protein ch
45	937.5	50.6	352	22	AAW07048	Human G-protein ch

#### ALIGNMENTS

RESULT 1	AAW03377	standard; Protein; 355 AA.
ID	AAW03377	
XX	AAW03377;	
AC	AAW03377;	
XX		
DF	15-NOV-1996	(first entry)
XX		
DE	CC-chemokine receptor 3.	
XX		
KW	CC-chemokine receptor 3; CRP-3; Bos-12; Inhibitor; antisense;	
XX	antiflammatory; eosinophil.	
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Region	130..138
FT		/note="amino acids 130-138 comprise a motif
FT		conserved among C-X-C and C-C chemokine
FT		receptors"
PN	W09622371-A2.	
XX		
PD	25-JUL-1996.	
XX		
PF	19-JAN-1996;	96WO-US00608.
XX		
PR	19-JAN-1995;	95US-0375199.
XX		
PA	(BGHM) BRIGHAM & WOMENS HOSPITAL.	
PA	(CHIL-) CHILDRENS MEDICAL CENT.	
XX	(LEUK-) LEUKOSITE INC.	

PI Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW,  
 XX Gln S;  
 DR WPI; 1996-354528/35.  
 DR N-PSDB; AAW31335.  
 XX  
 PT Mammalian chemokine receptor-3 and related nucleic acids - useful to  
 PT identify receptor inhibitors to treat inflammatory disease, e.g.  
 PT autoimmune disorders, certain cancers, etc.  
 XX  
 XX Claim 10; Page 113-114; 153pp; English.  
 XX  
 CC A novel human receptor (AAW03377), designated Eos I2 or C-C chemokine  
 CC receptor 3 (CCR-3), is involved in leukocyte migration associated  
 CC with inflammation. Its sequence was deduced from a cDNA clone  
 CC (AAW1335) isolated from a hyper-eosinophilic syndrome patient. A  
 CC slightly different amino acid sequence (AAW03376) was deduced from a  
 CC genomic clone (AAW1334) and a consensus sequence is given in AAW03378.  
 CC Recombinant CCR-3 can be produced in host cells, and is useful for  
 CC screening for CCR-3 ligands, promoters and inhibitors. The  
 CC inhibitors can be used to treat inflammatory disease.  
 CC  
 XX Sequence 355 AA;  
 SQ  
 Query Match 100.0%; Score 1854; DB 17; Length 355;  
 Best Local Similarity 100.0%; Pred. No. 5.8e-201;  
 Matches 355; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 - QY 1 MTTSLDTVEFTGTSYYDDVGLCEKADTRALMAQVPPPLYSIVFTVGLGNVVMII 60  
 Db 1 MTTSLDTVEFTGTSYYDDVGLCEKADTRALMAQVPPPLYSIVFTVGLGNVVMII 60  
 QY 61 KYRRLRIMNTIYLNTAISDLFLVLPFWIHVRGNHNVFGHGCKLLSGFYHTGLYSE 120  
 Db 61 KYRRLRIMNTIYLNTAISDLFLVLPFWIHVRGNHNVFGHGCKLLSGFYHTGLYSE 120  
 QY 121 IFFIILLTDRLAIYHAFALRARTVGTGVTISVTWGLAVLAALPEFIYTEELFEE 180  
 Db 121 IFFIILLTDRLAIYHAFALRARTVGTGVTISVTWGLAVLAALPEFIYTEELFEE 180  
 QY 181 TICSALYPEDVYSWRHFTLRMTIFCLVPLVMAICYTGIIKTLRCPSSKKRYAIRL 240  
 Db 181 TICSALYPEDVYSWRHFTLRMTIFCLVPLVMAICYTGIIKTLRCPSSKKRYAIRL 240  
 QY 241 IFVIMAVFEIEMTPYVAVALLSSYOSILFGNDCERKHLDMVLTVEVAISHCCNPIY 300  
 Db 241 IFVIMAVFEIEMTPYVAVALLSSYOSILFGNDCERKHLDMVLTVEVAISHCCNPIY 300  
 QY 301 YAFVGERFRKYLRRHFHRLMLHGLGRYIPFLPSEKLEKTSVSPSTAEPDELSTVF 355  
 Db 301 YAFVGERFRKYLRRHFHRLMLHGLGRYIPFLPSEKLEKTSVSPSTAEPDELSTVF 355  
 RESULT 2  
 AAW31850  
 ID AAW31850 standard; Protein; 355 AA.  
 XX  
 AC AAW31850;  
 XX  
 DT 07-MAY-1998 (first entry)  
 XX  
 DE Human eosinophil eotaxin receptor protein CC CCR3.  
 XX  
 KW Eosinophil eotaxin receptor; CC CCR3; human; treatment; dermatitis;  
 KW atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma;  
 KW beta-chemokine receptor; viral infection.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W09741154-A1.  
 XX  
 PD 06-NOV-1997.  
 XX

PF 24-APR-1997; 97MO-US06568.  
 XX  
 PR 17-JAN-1997; 97GB-0000894.  
 PR 26-APR-1996; 96US-0016158.  
 PR 26-APR-1996; 96US-0017113.  
 XX  
 PA (MERI) MERCK & CO INC.  
 XX  
 PI Daugherty BL, Demartino JA, Siciliano SJ, Springer MS;  
 XX  
 DR WPI; 1997-549685/50.  
 DR N-PSDB; AAW93601.  
 XX  
 PT New isolated human eosinophil eotaxin receptor - used to develop  
 PT products for treating and preventing atopic conditions e.g. allergic  
 PT rhinitis, dermatitis, conjunctivitis and bronchial asthma  
 XX  
 PS Claim 5; Page 15; 51pp; English.  
 XX  
 CC This is a human eosinophil eotaxin receptor. The 5099 base pair encoding  
 CC cDNA sequence comprises a 1065 base pair open reading frame encoding this  
 CC 355 amino acid eosinophil eotaxin receptor protein, flanked by a 5'  
 CC genomic DNA sequence and a 3' terminator region. This novel eosinophil  
 CC eotaxin receptor is a human beta-chemokine receptor designated CC CCR3.  
 CC Agents which bind to this eosinophil eotaxin receptor can be used for  
 CC the treatment and prevention of atopic conditions such as allergic  
 CC rhinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which  
 CC block this eosinophil eotaxin receptor can be used to prevent viral  
 CC infection in healthy individuals and slow or halt viral progression  
 CC in infected patients.  
 CC  
 XX Sequence 355 AA;  
 SQ  
 Query Match 100.0%; Score 1854; DB 18; Length 355;  
 Best Local Similarity 100.0%; Pred. No. 5.8e-201;  
 Matches 355; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MTTSLDTVEFTGTSYYDDVGLCEKADTRALMAQVPPPLYSIVFTVGLGNVVMII 60  
 Db 1 MTTSLDTVEFTGTSYYDDVGLCEKADTRALMAQVPPPLYSIVFTVGLGNVVMII 60  
 QY 61 KYRRLRIMNTIYLNTAISDLFLVLPFWIHVRGNHNVFGHGCKLLSGFYHTGLYSE 120  
 Db 61 KYRRLRIMNTIYLNTAISDLFLVLPFWIHVRGNHNVFGHGCKLLSGFYHTGLYSE 120  
 QY 121 IFFIILLTDRLAIYHAFALRARTVGTGVTISVTWGLAVLAALPEFIYTEELFEE 180  
 Db 121 IFFIILLTDRLAIYHAFALRARTVGTGVTISVTWGLAVLAALPEFIYTEELFEE 180  
 QY 181 TICSALYPEDVYSWRHFTLRMTIFCLVPLVMAICYTGIIKTLRCPSSKKRYAIRL 240  
 Db 181 TICSALYPEDVYSWRHFTLRMTIFCLVPLVMAICYTGIIKTLRCPSSKKRYAIRL 240  
 QY 241 IFVIMAVFEIEMTPYVAVALLSSYOSILFGNDCERKHLDMVLTVEVAISHCCNPIY 300  
 Db 241 IFVIMAVFEIEMTPYVAVALLSSYOSILFGNDCERKHLDMVLTVEVAISHCCNPIY 300  
 QY 301 YAFVGERFRKYLRRHFHRLMLHGLGRYIPFLPSEKLEKTSVSPSTAEPDELSTVF 355  
 Db 301 YAFVGERFRKYLRRHFHRLMLHGLGRYIPFLPSEKLEKTSVSPSTAEPDELSTVF 355  
 RESULT 3  
 AAW27124  
 ID AAW27124 standard; Protein; 355 AA.  
 XX  
 AC AAW27124;  
 XX  
 DT 14-DEC-1997 (first entry)  
 XX  
 DE Human chemokine receptor 88-2B.  
 XX  
 KW Chemokine receptor 88-2B; atherosclerosis; rheumatoid arthritis;  
 KW

KW	tumour; asthma; viral infection; AIDS; inflammation;
RW	autoimmune disease; therapy; diagnosis; leukocyte trafficking;
KW	G protein coupled receptor; ligand; modulator; antibody; human.
XX	Homo sapiens.
XX	
FH	Key
FT	Domain
FT	/label- Extracellular_domain
FT	60..71
FT	/label- Intracellular_domain
FT	93..107
FT	/label- Extracellular_domain
FT	131..151
FT	/label- Intracellular_domain
FT	171..196
FT	/label- Extracellular_domain
FT	219..240
FT	/label- Intracellular_domain
FT	263..284
FT	/label- Extracellular_domain
FT	306..355
FT	/label- Intracellular_domain
PX	
PN	WO9722698-A2.
XX	
PD	26-JUN-1997.
XX	
PF	20-DEC-1996; 96WO-US20759.
XX	
PR	07-JUN-1996; 96US-0661393.
PR	20-DEC-1995; 95US-0575967.
XX	
PA	(ICOS-) ICOS CORP.
PI	Gray PW, Raport CJ, Schweickart VL;
DR	WPI; 1997-341689/31.
DR	N-PSDB; AAT85162.
XX	
PT	New nucleic acid encoding chemokine receptors 88-2B and 88C - used
PT	to modulate leukocyte trafficking; e.g. for treatment of
PT	Inflammation, tumours, viral infections, autoimmune diseases, etc.
XX	
PS	Claim 1; Page 50-51; 65pp; English.
XX	
CC	This polypeptide sequence comprises novel human chemokine receptor
CC	88-2B, a G protein coupled receptor that is involved in leukocyte
CC	trafficking. Its amino sequence was deduced from a cDNA clone
CC	(AAT85162) isolated from a macrophage library. It shows 72% identity
CC	to CCCR1. Chemokine receptor 88C (see AAW27123) has also been
CC	identified. 88C and 88-2B receptors and their polypeptide fragments
CC	can be produced in transformed host cells. The receptors, peptides
CC	comprising one or more of the extracellular or intracellular
CC	domains, and anti-receptor antibodies can be used to modulate
CC	receptor activities, particularly ligand and G protein binding, and
CC	are potentially useful in the treatment of
CC	atherosclerosis, rheumatoid arthritis, tumours, asthma, viral
CC	infection, AIDS, inflammatory conditions, pathological immune
CC	response, abnormal haematopoietic processes etc.
XX	
SQ	Sequence 355 AA;
Query Match	100.0%; Score 1854; DB 18; Length 355;
Best Local Similarity	100.0%; Pred. NO. 5.8e-201;
Matches 355; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
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Db	1 MTISLDVETFGTSTSYDDVGILCEKAPTRALMAQFVPPLXSIVTVGILGNVVVMILI 60
OY	61 KYRRLRMFTNIIYLMLAISDLFLVTLPFWIHYVGNMNVGGHCKLLSGFYHTGLYSE 120

Db	61	KRRRLRMITNIYLLNLAIISDLLFLVTLFPWIIHYVGHNMVFGHGCKILLSGFYHTGLYSE	120
Oy	121	IFPFIILITDIRLAIYHAAVFALRAATVTEPGVITSIVTWGLAVIALPEFIYTEELFE	180
Db	121	IFPFIILITDIRLAIYHAAVFALRAATVTEPGVITSIVTWGLAVIALPEFIYTEELFE	180
Oy	181	TLCSSALYPEDTVYSMRHPTLRMTIFCLVPLLVNAICYTGIIKTLNCPSKRRKYAIRL	240
Db	181	TLCSSALYPEDTVYSMRHPTLRMTIFCLVPLLVNAICYTGIIKTLNCPSKRRKYAIRL	240
Oy	241	IFVIMAVFIFPMPIPVYVALLSSYOSILFGNDCESKRLDLMVLTVEYIASSHCCNMPVI	300
Db	241	IFVIMAVFIFPMPIPVYVALLSSYOSILFGNDCESKRLDLMVLTVEYIASSHCCNMPVI	300
Oy	301	YAFVGEFRFLYLRHFFRHLMLHGLYIPFLPSEKLEERTSSVSPSTAPELSIYF	355
Db	301	YAFVGEFRFLYLRHFFRHLMLHGLYIPFLPSEKLEERTSSVSPSTAPELSIYF	355
RESULT 4			
ID	AAW51745		
XX	AAW51745	standard; Protein; 355 AA.	
AC	AAW51745;		
XX			
XX	28-SEP-1998	(first entry)	
XX			
DE	Human C-C chemokine receptor 3.		
XX			
KM	C-C chemokine receptor 3; CCR-3; CCR3; Eos L2; human;		
KM	G protein-coupled receptor; leukocyte; antibody; antagonist;		
KM	Inflammation; allergy; asthma; graft rejection; infection;		
KM	autoimmune disease; drug screening; therapy.		
XX			
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	Misc-difference 24	/note- "conserved cysteine residue"	
FT	Misc-difference 106	/note- "conserved cysteine residue"	
FT	Misc-difference 183	/note- "conserved cysteine residue"	
FT	Misc-difference 273	/note- "conserved cysteine residue"	
FT	Peptide	/note- "conserved cysteine residue"	
FT	Modified-site 231	/note- "C-C chemokine receptor conserved motif"	
FT	Modified-site 333	/note- "protein kinase C phosphorylation site"	
FT	Modified-site	/note- "protein kinase C phosphorylation site"	
XX	W09814480-A1.		
XX	09-APR-1998.		
XX	24-SEP-1997;	97W0-US17103.	
XX	30-SEP-1996;	960S-0720565.	
PA	(LEUK-) LEUKOSITE INC.		
PI	Mackay CR, Ponath PD;		
XX	WPI: 1998-286418/25.		
DR	N-PSDB: AAV07403.		
XX			
PT	Antibodies to chemokine receptor-3 protein - useful for diagnosis		
PT	and treatment of inflammatory conditions, e.g. allergy, asthma,		
PT	autoimmune disease, graft rejection or cancer		
XX			
PS	Example 2; Page 136-137; 185pp; English.		
XX			

CC This polypeptide comprises novel human C-C chemokine receptor 3,  
CC also designated CCR-3, CCR3 or R5-12, that binds and mediates  
CC chemotaxis in response to chemokines such as eotaxin, RANTES and  
CC MCP-3. Its amino acid sequence was deduced from an isolated  
CC cDNA sequence (see AA070403). It differs slightly from the  
CC sequence (see AAM51744) deduced from genomic DNA (see AA07402); a  
CC consensus sequence for CCR-3 is provided (see AAM51746). The  
CC invention relates to isolated and/or recombinant nucleic acids  
CC encoding CCR-3, isolated or recombinant CCR-3 polypeptides,  
CC recombinant nucleic acid constructs, host cells useful for  
CC production of recombinant CCR-3 proteins, to antibodies reactive  
CC with the receptors, and to methods of using these products to  
CC identify ligands, antagonists and agonists of receptor function.  
CC Inhibitors of CCR-3 can be used to treat: inflammatory or allergic  
CC diseases and conditions, including respiratory allergic diseases  
CC such as asthma, allergic rhinitis, hypersensitively lung disease,  
CC hypersensitively pneumonitis, eosinophilic pneumonia (e.g.  
CC Loeffler's syndrome, chronic eosinophilic pneumonia, interstitial  
CC lung disease (ILD) e.g. idiopathic pulmonary fibrosis or IIP  
CC associated with rheumatoid arthritis), systemic lupus erythematosus,  
CC ankylosing spondylitis, systemic sclerosis, Sjogren's syndrome,  
CC polymyositis or dermatomyositis), systemic anaphylaxis or  
CC hypersensitivity responses, drug allergy, insect sting allergy,  
CC inflammatory bowel disease, such as Crohn's disease and ulcerative  
CC colitis, spondyloarthropathy, scleroderma, psoriasis, inflammatory  
CC dermatoses such as dermatitis, eczema, atopic dermatitis, allergic  
CC allergic contact dermatitis, urticaria, vasculitis (e.g. necrotizing  
CC cutaneous and hypersensitively vasculitis), eosinophilic myositis  
CC and eosinophilic fasciitis; autoimmune diseases such as rheumatoid  
CC arthritis, psoriatic arthritis, multiple sclerosis, systemic lupus  
CC erythematosus, myasthenia gravis, juvenile onset diabetes,  
CC glomerulonephritis, autoimmune thyroiditis and Behcet's disease;  
CC graft rejection, including allograft rejection or graft-versus-host  
CC disease; cancers with leukocyte infiltration of the skin or organs;  
CC and also reperfusion injury, atherosclerosis, certain hematologic  
CC malignancies, septic shock and endotoxic shock. Promoters of CCR-3  
CC function can be used for treating: immunosuppression e.g. in AIDS  
CC patients or individuals undergoing radiation therapy, chemotherapy,  
CC therapy for autoimmune disease or other drug therapy, and  
CC immunosuppression due congenital deficiency in receptor function or  
CC other causes; and infectious diseases such as parasitic diseases,  
CC including helminth infections, such as nematodes (round worms).  
CC The agents can also be used for detection and diagnosis.

**SQ Sequence 355 AA;**

Query Match	100.0%	Score 1854	DB 19	Length 355
Best Local Similarity	100.0%	Pred. NO. 5.8e-201		
Matches 355, Conservative	0	Mismatches	0	Gaps 0

[illegible]

RESULT 5  
AAG80109  
ID AAG80109 standard; Protein; 355 AA.

DT 17-JAN-2002 (first entry)  
XX  
DE Human CCR3 protein.  
..

KW Chemekering; tumour diagnosis; colorectal; prostatic; organ rejection;  
KW inflammation; autoimmune disease; metastasis; bronchial asthma;  
KW chronic bowel inflammation; rheumatoid arthritis; cystostatic;  
KW antinflammatory; antilasthmatic; immunosuppressive; dermatological;  
KW antipneumatic; antiauricular.

OS Homo sapiens.

PN WO200172830-A2

PD 04-OCT-2001

02-APR-2001; 2001WO-EP03708.

PR 31-MAR-2000; 2000DE-1016013.

PA (IPEP-) IPE PHARM GMBH.

(FORS) FOKSSMANN U.

PI Forssmann W, Adermann K, Heltland A, Spodsborg N, .....

DR WPI; 2001-626256/72.

PT Diagnostic agent containing two or more receptor-specific ligands,  
PT useful for detecting tumors, inflammation etc., also therapeutic use of  
PT ligand inhibitors -

PS Disclosure; Page 9; 26pp; German.

This invention describes a novel diagnostic agent (A) comprising at least two different ligands (I) for receptors (II) that are implicated in disease. (A) are used for the diagnosis of tumors (especially colorectal or prostatic), organ rejection, inflammation and autoimmune diseases. Also inhibitors of (I) are used therapeutically against tumors (and metastases), inflammation (particularly bronchial asthma or chronic bowel inflammation), or autoimmune diseases (rheumatoid arthritis or lupus), where the (cardio)vascular, lymphatic, respiratory, nervous, digestive, endocrine, motor or urogenital systems or skin are affected, and bone marrow diseases. The products of the invention are chemokine derivatives which have cytostatic, antiinflammatory, antiasthmatic, immunosuppressive, dermatological, antineumatic, antiallergic, chemokines act on specific tumor and inflammatory cells through a constellation of chemokine receptors (CR), which control migration and proliferation of these cells. AAG80045-AAG80128 represent human chemokine fragments used to illustrate the method of the invention.

**5Q Sequence 355 AA;**

Query Match	100.0%	Score 1854;	DB 22;	Length 355;
Best Local Similarity	100.0%	Pred. No. 5.8e-201;		
Matches 355; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0

[illegible]

```

Db      |||
121 IFFIILLTIDRYLAIVHAVFALRARTVFGVITSIVTWGLAVLAALPEFIYETEELFEE 180
Qy      181 TLCSALYPEDVYSGMRHRTLMRTIFCLVPLPLVMAICYTGIIITLRCPSKKRYKARL 240
Db      181 TLCSALYPEDVYSGMRHRTLMRTIFCLVPLPLVMAICYTGIIITLRCPSKKRYKARL 240
Qy      241 IFVIMAVFIFMTFYPYNNAILSSYOSILFGNDCRSKHLDMVLVTEVIAYSHCCMPVI 300
Db      241 IFVIMAVFIFMTFYPYNNAILSSYOSILFGNDCRSKHLDMVLVTEVIAYSHCCMPVI 300
Qy      301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKTSVSPSTAPELSIYF 355
Db      301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKTSVSPSTAPELSIYF 355

RESULT 6
AAE15320 standard; Protein; 355 AA.
AC      AAE15320;
DE      12-MAR-2002 (first entry)
XX      Human chemokine (C-C motif) receptor 3 (CCR3) protein.
XX      Human; chemokine (C-C motif) receptor 3; CCR3 gene; haplotyping;
KW      genotyping; type IV hypersensitivity reaction; HIV-1; gene therapy;
KW      human immunodeficiency virus 1; single nucleotide polymorphism; SNP;
KW      chromosome 3p21.3.
XX      Homo sapiens.
OS      Homo sapiens.
XX      Key Location/Qualifiers
XX      Misc-difference 351
XX      /note= "Ileu at this position is replaced with Pro
XX      due to single nucleotide polymorphism (SNP)".
XX      WO200187908-A2.
XX      22-NOV-2001.
XX      18-MAY-2001; 2001WO-US16278.
XX      18-MAY-2000; 2000US-205191P.
XX      (GENA-) GENAISSANCE PHARM INC.
XX      PA
XX      Choi JY, Kazeml A, Koshy B;
XX      WPI; 2002-055681/07.
XX      DR      N-PSDB; AAD25221, AAD25222.
XX      PT      Isolated polymorphic variants of chemokine (C-C motif) receptor 3
XX      (CCR3) gene useful for studying function of CCR3, expressing the CCR3
XX      protein and to screen drugs to treat CCR3 activity-related diseases -
XX      Claim 28; Fig 3; 53pp; English.
XX      The invention relates to genetic variants of human chemokine (C-C motif)
XX      receptor 3 (CCR3) gene. The invention also relates to compositions and
XX      methods for haplotyping and/or genotyping the CCR3 gene in an individual.
XX      Polynucleotides of the invention are useful for studying the expression
XX      and function of CCR3 and in expressing CCR3 proteins for use in screening
XX      candidate drugs to treat diseases related to CCR3 activity. They are also
XX      used in gene therapy. The polymorphism and haplotype data is useful for
XX      validating whether CCR3 is a suitable target for drugs to treat type IV
XX      hypersensitivity reactions and human immunodeficiency virus (HIV)-1,
XX      screening for such drugs and reducing bias cells in clinical trials of
XX      such drugs. The genotyping method is useful for determining whether an
XX      individual has one haplotype or haplotype pairs. The haplotyping method
XX      is useful for improving the efficiency and outcome of several steps in
XX      the discovery and development of drugs for treating diseases associated

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CC      with CCR3 activity such as type IV hypersensitivity reactions and HIV-1.
CC      The present sequence is human CCR3 protein. The CCR3 gene is located on
CC      chromosome 3p21.3.
XX      SO      Sequence 355 AA;
Qy      Query Match 100.0%; Score 1854; DB 23; Length 355;
Qy      Best Local Similarity 100.0%; Pred. No. 5, 8e-201;
Qy      Matches 355; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db      1 MTSIDVYETGRTSYDDVGLCEKADTRALMAQFPPLYSIVFTGGLGNVVMILI 60
Db      1 MTSIDVYETGRTSYDDVGLCEKADTRALMAQFPPLYSIVFTGGLGNVVMILI 60
Qy      61 KYRRLRTNTNYLNLASIDLLFTVLPFWIHYRGHWVYGHGMCKLLSGFYHTGLYSE 120
Db      61 KYRRLRTNTNYLNLASIDLLFTVLPFWIHYRGHWVYGHGMCKLLSGFYHTGLYSE 120
Qy      121 IFFIILLTIDRYLAIVHAVFALRARTVFGVITSIVTWGLAVLAALPEFIYETEELFEE 180
Db      121 IFFIILLTIDRYLAIVHAVFALRARTVFGVITSIVTWGLAVLAALPEFIYETEELFEE 180
Qy      181 TLCSALYPEDVYSGMRHRTLMRTIFCLVPLPLVMAICYTGIIITLRCPSKKRYKARL 240
Db      181 TLCSALYPEDVYSGMRHRTLMRTIFCLVPLPLVMAICYTGIIITLRCPSKKRYKARL 240
Qy      241 IFVIMAVFIFMTFYPYNNAILSSYOSILFGNDCRSKHLDMVLVTEVIAYSHCCMPVI 300
Db      241 IFVIMAVFIFMTFYPYNNAILSSYOSILFGNDCRSKHLDMVLVTEVIAYSHCCMPVI 300
Qy      301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKTSVSPSTAPELSIYF 355
Db      301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKTSVSPSTAPELSIYF 355

RESULT 7
AAW03376 standard; Protein; 355 AA.
AC      AAW03376;
DE      15-NOV-1996 (first entry)
XX      CC-chemokine receptor 3.
XX      CC-chemokine receptor 3.
XX      DE      CC-chemokine receptor 3; CRP-3; Bos-L2; inhibitor; antisense;
XX      antiinflammatory; eosinophil.
XX      Homo sapiens.
XX      OS      Homo sapiens.
XX      Key Location/Qualifiers
XX      FH      130..138
XX      FT      Region /note= "amino acids 130-138 comprise a motif
XX      conserved among C-X-C and C-C chemokine
XX      receptors".
XX      W09622371-A2.
XX      25-JUL-1996.
XX      19-JAN-1996; 96WO-US00608.
XX      19-JAN-1995; 95US-0375199.
XX      (BGHM-) BRIGHAM & WOMENS HOSPITAL.
XX      PA      (CHIL-) CHILDRENS MEDICAL CENT.
XX      PA      (LEBK-) LEOKOSITE INC.
XX      PI      Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW;
XX      Qin S;
XX      WPI; 1996-354528/35.
XX      DR      N-PSDB; AAT31334.

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XX Mammalian chemokine receptor-3 and related nucleic acids - useful to  
PT identify receptor inhibitors to treat inflammatory disease, e.g.  
PT autoimmune disorders, certain cancers, etc.  
PS  
XX Claim 10; Page 110-111; 153pp; English.  
CC A novel human receptor (AAW03376), designated Bos L2 or C-C chemokine  
CC receptor 3 (CCR-3), is involved in leukocyte migration associated  
CC with inflammation. Its sequence was deduced from a genomic DNA  
CC clone (AA71334). A slightly different amino acid sequence (AAW03377)  
CC was deduced from a cDNA clone (AA71335) and a consensus sequence  
CC is given in AAW03378. Recombinant CCR-3 can be produced in host  
CC cells, and is useful for screening for CCR-3 ligands, promoters  
CC and inhibitors. The inhibitors can be used to treat inflammatory  
CC disease.  
XX  
XX Sequence 355 AA;  
SQ  
Query Match 99.8%; Score 1851; DB 17; Length 355;  
Best Local Similarity 99.7%; Pred. No. 1.3e-200;  
Matches 354; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
=OY 1 MTTSLDTYVEFGTSTSYDDVGLCEKADRALMAOPFPLYSIVFYTGILGNVVMILLI 60  
DB 1 MTTSLDTYVEFGTSTSYDDVGLCEKADRALMAOPFPLYSIVFYTGILGNVVMILLI 60  
OY 61 KYRRLIMTNIYILNLAISDLFLVYLPMIHYVNGHNVFGHGMCKLSGFEYHTGLYSE 120  
DB 61 KYRRLIMTNIYILNLAISDLFLVYLPMIHYVNGHNVFGHGMCKLSGFEYHTGLYSE 120  
OY 121 IFFIILLTDRILAYANFAARARVTVGVTSITVWGLAVLAALPEFIETEELEFEE 180  
DB 121 IFFIILLTDRILAYANFAARARVTVGVTSITVWGLAVLAALPEFIETEELEFEE 180  
OY 181 TLCSALYPEDYVSMRHFETLMTIFECVLPPLVMAICTGTIITLRPSKKRYAIRL 240  
DB 181 TLCSALYPEDYVSMRHFETLMTIFECVLPPLVMAICTGTIITLRPSKKRYAIRL 240  
OY 241 IFVIMAVFEITFPYVAVAILSSYOSILFENDCKSKHLDVLMVTEVIAVSHCCNPIYI 300  
DB 241 IFVIMAVFEITFPYVAVAILSSYOSILFENDCKSKHLDVLMVTEVIAVSHCCNPIYI 300  
OY 301 YAFVGRERKRYLRHFRHRLIMHIGRYTFLPSEKLETSVSPSTAEPSELIVF 355  
DB 301 YAFVGRERKRYLRHFRHRLIMHIGRYTFLPSEKLETSVSPSTAEPSELIVF 355  
RESULT 8  
AAW10100  
ID AAW10100 standard; Protein; 355 AA.  
XX  
XX AAW10100;  
DE 30-SEP-1997 (first entry)  
XX  
XX Human C-C chemokine receptor 3.  
XX  
XX Human; eotaxin; eosinophil; chemotactic; stimulation;  
KW accumulation; attraction; chemotaxis; diagnosis; prevention;  
KW treatment; disease; inflammation; allergy; asthma; rhinitis;  
KW hypersensitivity; lung; pneumonia; Loeffler's; syndrome;  
KW interstitial; ILD; idiopathic pulmonary fibrosis;  
KW rheumatoid arthritis; systemic; lupus erythematosus; SLE;  
KW ankylosing spondylitis; scleritis; Sjogren's; polymyositis;  
KW dermatomyositis; bowel; anaphylaxis; drug; penicillin;  
KW cephalosporin; insect sting; Crohn's; ulcerative colitis;  
KW spondyloarthropathy; scleroderma; psoriasis; dermatosis;  
KW dermatitis; eczema; atopic; urticaria; necrotizing; cutaneous;  
KW vasculitis; myositis; fascitis; multiple sclerosis;  
KW myasthenia gravis; juvenile onset diabetes; glomerulonephritis;  
KW autoimmune; thyroiditis; Bechet's; graft; rejection;  
KW transplantation; allograft; graft versus host; cancer;

KW leukocyte infiltration; reperfusion injury; atherosclerosis;  
KW haematologic malignancy; septic; endotoxic; shock;  
KW polymyositis; dermatomyositis; immunosuppression; immunodeficiency;  
KW AIDS; radiation therapy; chemotherapy; autoimmune; corticosteroid;  
KW C-C chemokine receptor 3; CCR3.  
XX  
XX Homo sapiens.  
XX  
XX WO9700960-A1.  
XX  
XX 09-JAN-1997.  
XX  
XX 21-JUN-1996; 96WO-US10723.  
XX  
XX 23-JUN-1995; 95US-0494093.  
XX  
XX (LEUK-) LEUKOSITE INC.  
XX  
XX Mackay C, Newman W, Ponath PD, Qin S, Ringler DJ;  
XX MPI; 1997-087387/08.  
XX DR N-PSDB; AAT58783.  
XX  
XX New isolated human eotaxin gene - used to develop prods. for the  
PT diagnosis and treatment of e.g. inflammation, allergies, auto-immune  
PT disease, infections and tumours  
XX  
XX Example 7; Pages 98-99; 130pp; English.  
XX  
XX The present sequence is human C-C chemokine receptor 3 (CCR3),  
CC to which human eotaxin (hE), an eosinophil specific chemoattractant  
CC capable of stimulating eosinophil accumulation and/or attracting  
CC eosinophils (including chemotaxis), binds.  
CC he can be used to develop products for the diagnosis, prevention or  
CC treatment of he associated diseases or conditions. The products can  
CC be used to treat inflammatory or allergic diseases and conditions,  
CC including respiratory allergic diseases (e.g. asthma, allergic  
CC rhinitis, hypersensitivity lung diseases or pneumonitis,  
CC eosinophilic pneumonias such as Loeffler's syndrome and chronic  
CC eosinophilic pneumonia, interstitial lung diseases (ILD) such as  
CC idiopathic pulmonary fibrosis or IIP associated with rheumatoid  
CC arthritis, systemic lupus erythematosus (SLE), ankylosing  
CC spondylitis, systemic sclerosis, Sjogren's syndrome, polymyositis  
CC or dermatomyositis), systemic anaphylaxis or hypersensitivity  
CC responses, drug allergies (e.g. to penicillin and cephalosporins),  
CC insect sting allergies, inflammatory bowel diseases (e.g. Crohn's  
CC disease and ulcerative colitis), spondyloarthropathies,  
CC scleroderma, psoriasis and inflammatory dermatoses (e.g.  
CC dermatitis, eczema, atopic dermatitis, allergic contact dermatitis,  
CC urticaria and necrotizing, cutaneous and hypersensitivity  
CC vasculitis), eosinophilic myositis and fascitis, multiple  
CC sclerosis, SLE, myasthenia gravis, juvenile onset diabetes,  
CC glomerulonephritis, autoimmune thyroiditis, Bechet's disease, graft  
CC rejection (e.g. in transplantation) including allograft rejection or  
CC graft versus host disease and cancers with leukocyte infiltration  
CC of the skin or organs. The products can also be used to treat other  
CC diseases or conditions requiring the inhibition of undesirable  
CC inflammatory responses, including reperfusion injury,  
CC atherosclerosis, certain haematologic malignancies, cytokine  
CC induced toxicity (e.g. septic or endotoxic shock), polymyositis,  
CC dermatomyositis, immunosuppression (e.g. in individuals with  
CC immunodeficiency syndromes such as AIDS, undergoing radiation  
CC therapy, chemotherapy, therapy for autoimmune disease or other drug  
CC therapy, such as corticosteroid therapy, which causes  
CC immunosuppression), immunosuppression due to (e.g. congenital)  
CC deficiency (e.g. in eotaxin) or infectious diseases such as parasitic  
CC diseases.  
CC Degenerate primers based on the guinea pig eotaxin amino acid  
CC sequence were used for the reverse transcriptase polymerase chain  
CC reaction (RT-PCR) amplification of RNA isolated from inflamed,  
CC eosinophilic lung tissue obtained from Balb/c mice sensitised to  
CC ovalbumin. The amplification product was used as a probe to screen  
CC a human genomic library in vector EMB3 SP6/77 to obtain the hE

CC gene.  
 XX Sequence 355 AA;  
 Query Match 99.8%; Score 1851; DB 18; Length 355;  
 Best Local Similarity 99.7%; Pred. No. 1.3e-200;  
 Matches 354; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSIDIVETFGTSTSYDDVGLCEKADTRALMAQFVPLSLVFTVGLGNVVMILI 60  
 DB 1 MTSIDIVETFGTSTSYDDVGLCEKADTRALMAQFVPLSLVFTVGLGNVVMILI 60  
 QY 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 DB 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 QY 121 IFFIILLTIDRYLAIIVAVPALRARTVFGVITSIVMGVLAVLALPEFIYEELFEE 180  
 DB 121 IFFIILLTIDRYLAIIVAVPALRARTVFGVITSIVMGVLAVLALPEFIYEELFEE 180  
 QY 181 TLCALYPEDTVYSMRHFHTLRMTIFCLVPLVLAICVGTGIIKTLNCPSKKKYKAIRL 240  
 DB 181 TLCALYPEDTVYSMRHFHTLRMTIFCLVPLVLAICVGTGIIKTLNCPSKKKYKAIRL 240  
 QY 241 IFVIMAVFIFWTPYNNVAIILSSYOSILFGNDCERSKLDLVMLEYIAVSHCCMPVI 300  
 DB 241 IFVIMAVFIFWTPYNNVAIILSSYOSILFGNDCERSKLDLVMLEYIAVSHCCMPVI 300  
 QY 301 YAFGERFRKYLRFHFRHLLMHGRIYPLPSEKLENTSSVSPSTAPELSIYF 355  
 DB 301 YAFGERFRKYLRFHFRHLLMHGRIYPLPSEKLENTSSVSPSTAPELSIYF 355

RESULT 9  
 ABB07733  
 ID ABB07733 standard; Protein: 355 AA.  
 AC ABB07733;  
 DT 10-JUN-2002 (first entry)  
 XX  
 DE Human C-C chemokine receptor 3 (CCR3) protein.  
 XX  
 KW Mucosae-associated epithelial chemokine; MEC; C-C chemokine receptor;  
 KW CCR3; CCR10; anti-inflammatory; cytostatic; immunomodulator; anti-viral;  
 KW antibacterial; chemokine; human.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200214532-A2.  
 PD 21-FEB-2002.  
 XX  
 PE 15-AUG-2001; 2001WO-US25734.  
 XX  
 PR 15-AUG-2000; 2000US-0638914.  
 XX  
 PA (MILL-) MILLENNIUM PHARM INC.  
 PA (SPRD ) UNIV LELAND STANFORD JUNIOR.  
 XX  
 PI Butcher EC, Kunkel EJ, Pan J, Soler-Ferran D;  
 XX  
 DR WPI; 2002-269204/31.  
 DR N-PSDB; ABL40462.  
 XX  
 XX Identifying modulators of mucosae-associated epithelial chemokine (MEC)  
 PT receptors 3 or 10 (CCR3/10), useful for treating inflammatory diseases,  
 PT comprises detecting formation of MEC-CCR3/10 complex or modulation of a  
 PT MEC-induced response -  
 XX  
 PS Example 2; Fig 5; 92pp; English.  
 XX  
 CC The invention relates to identifying agents that inhibit or promote the

CC binding of a mammalian mucosae-associated epithelial chemokine (MEC) to  
 CC a mammalian C-C chemokine receptor 3 (CCR3) or 10 (CCR10). The method  
 CC involves: (a) detecting or measuring the formation of a complex between  
 CC the MEC, and the CCR3 or CCR10; or (b) determining the ability of the  
 CC test agent to inhibit or augment a MEC-induced response. An augmentation  
 CC of complex formation, relative to a control, is indicative that the agent  
 CC is a promoter. The method is useful for identifying modulators (e.g.  
 CC inhibitors or promoters) of MEC-induced functions of CCR3 and/or CCR10.  
 CC The inhibitors are useful for treating inflammatory diseases or  
 CC conditions in a subject, e.g. oral inflammatory condition (e.g. Sjogren's  
 CC syndrome or Behcet's syndrome), mastitis, chronic obstructive lung  
 CC disease, asthma, inflammatory bowel disease (e.g. Crohn's disease,  
 CC ulcerative colitis or celiac disease), Iga nephropathy or dermatitis  
 CC herpeticiformis. The promoters are useful for treating cancers (e.g. solid  
 CC tumours or cutaneous T cell lymphoma), neoplastic disease, retinopathy,  
 CC macular degeneration, bacterial infections, tuberculous leprosy, viral  
 CC infections, AIDS, neutropenias or bronchiectasis. The present sequence  
 CC represents the human CCR3 protein.  
 XX

SO Sequence 355 AA;  
 Query Match 99.8%; Score 1851; DB 23; Length 355;  
 Best Local Similarity 99.7%; Pred. No. 1.3e-200;  
 Matches 354; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSIDIVETFGTSTSYDDVGLCEKADTRALMAQFVPLSLVFTVGLGNVVMILI 60  
 DB 1 MTSIDIVETFGTSTSYDDVGLCEKADTRALMAQFVPLSLVFTVGLGNVVMILI 60  
 QY 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 DB 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 QY 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 DB 61 KYRRLRMTNTIYLLNLAIISDLFLVTLPEFWIHYVGNHWVGHGCKLLSGFYHTGLYSE 120  
 QY 121 IFFIILLTIDRYLAIIVAVPALRARTVFGVITSIVMGVLAVLALPEFIYEELFEE 180  
 DB 121 IFFIILLTIDRYLAIIVAVPALRARTVFGVITSIVMGVLAVLALPEFIYEELFEE 180  
 QY 181 TLCALYPEDTVYSMRHFHTLRMTIFCLVPLVLAICVGTGIIKTLNCPSKKKYKAIRL 240  
 DB 181 TLCALYPEDTVYSMRHFHTLRMTIFCLVPLVLAICVGTGIIKTLNCPSKKKYKAIRL 240  
 QY 241 IFVIMAVFIFWTPYNNVAIILSSYOSILFGNDCERSKLDLVMLEYIAVSHCCMPVI 300  
 DB 241 IFVIMAVFIFWTPYNNVAIILSSYOSILFGNDCERSKLDLVMLEYIAVSHCCMPVI 300  
 QY 301 YAFGERFRKYLRFHFRHLLMHGRIYPLPSEKLENTSSVSPSTAPELSIYF 355  
 DB 301 YAFGERFRKYLRFHFRHLLMHGRIYPLPSEKLENTSSVSPSTAPELSIYF 355

RESULT 10  
 ABB07240  
 ID ABB07240 standard; Protein: 355 AA.  
 AC ABB07240;  
 DT 26-MAR-2002 (first entry)  
 XX  
 DE Human CC chemokine receptor 3 (CCR3).  
 XX  
 KW CC chemokine receptor-3; CCR3; anti-allergic; anti-inflammatory; human;  
 KW antiasthmatic; ophthalmological; dermatological; immunosuppressive;  
 KW antipruritic.  
 XX  
 OS Homo sapiens.  
 XX  
 FN  
 PD  
 XX  
 DE  
 XX  
 XX Key Location/Qualifiers  
 FH 327..330  
 FT Peptide /note= "internalisation site; the modified CCR3 receptor  
 FT /note= "internalisation site; the modified CCR3 receptor  
 FT FT comprises a deletion or mutation of the  
 FT internalisation site"  
 FT Region 333..353  
 FT /note= "the modified CCR3 receptor comprises a deletion



or mutation of at least one phosphorylation site  
selected from positions 333, 339, 340, 341, 343,  
346 and 353\*.

FT FT or mutation of at least one phosphorylation site  
FT selected from positions 333, 339, 340, 341, 343,  
FT 346 and 353\*.  
XX WO200192520-A1.  
XX 06-DEC-2001.  
XX 31-MAY-2001; 2001WO-EP06195.  
XX 01-JUN-2000; 2000GB-0013345.  
XX (GLAXO) GLAXO GROUP LTD.  
XX Barnes AA, Fraser NJ, O'Shaughnessy CT, Wise A;  
PI WPI; 2002-114347/15.  
XX N-PSDB; ABA94340.  
DR Modified CC chemokine receptor-3 useful for identifying modulators of  
XX eotaxin-mediated CCR3 receptor for treating allergic and inflammatory  
PT disorders, comprises modifications to stabilize or enhance surface  
PT expression -  
XX  
XX Claim 1; Page 24-25; 29pp; English.  
XX  
XX The invention relates to a CC chemokine receptor-3 (CCR3) modified to  
CC stabilize or enhance expression of the receptor in a cell membrane.  
CC Assays for investigating properties of the CCR3 receptor are useful for  
CC the identification of modulators of eotaxin-mediated CCR3 receptor  
CC activity. The identified modulators are useful in the treatment of  
CC prophylaxis of allergic or inflammatory disorders which are responsive to  
CC regulation of CCR3 receptor activity. The agents are also useful in the  
CC treatment of allergy or asthma as well as ophthalmological, inflammatory,  
CC gastrointestinal, dermatological, respiratory or pruritic disorders. The  
CC agents are useful for treating conjunctivitis, inflammatory bowel disease,  
CC eczema, allergic rhinitis, nasal polyposis, atopic dermatitis and  
CC pruritis, chronic obstructive pulmonary disease (COPD) and other lung  
CC disorders and immune disease. The present sequence represents the human  
CC CCR3 receptor.  
XX  
XX  
SQ Sequence 355 AA;  
Query Match 99.8%; Score 1851; DB 23; Length 355;  
Best Local Similarity 99.7%; Pred. No. 1.3e-200;  
Matches 354; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
OY 1 MTTSLDVTETFGTSTYYDDVGLCCERADTRALMAQFVPPYSLVFTVGLGNVVMYMI 60  
DB 1 MTTSLDVTETFGTSTYYDDVGLCCERADTRALMAQFVPPYSLVFTVGLGNVVMYMI 60  
OY 61 KTRRLRIMNTIYLNLAIISDLFLVTLFPWIIHYVGNHNVFGHGMCKLLSGFYHGLYSE 120  
DB 61 KTRRLRIMNTIYLNLAIISDLFLVTLFPWIIHYVGNHNVFGHGMCKLLSGFYHGLYSE 120  
OY 121 IFFIILLTDRIALYHAFAALRARTVETGVTSTYTWGLAVLAALPERIFETEELPEE 180  
DB 121 IFFIILLTDRIALYHAFAALRARTVETGVTSTYTWGLAVLAALPERIFETEELPEE 180  
OY 181 TICSALYPEDYVYWRNHFHTLMTIFCLVPLPLVNAICTGTGIKTLRCPKSKKRYAIRL 240  
DB 181 TICSALYPEDYVYWRNHFHTLMTIFCLVPLPLVNAICTGTGIKTLRCPKSKKRYAIRL 240  
OY 241 IFVIMAVFEIFMTPTYNVALILSSYOSILFGNDCERKHLDVLMVTEVLAISHCCNMPYI 300  
DB 241 IFVIMAVFEIFMTPTYNVALILSSYOSILFGNDCERKHLDVLMVTEVLAISHCCNMPYI 300  
OY 301 YAFVGERFRKYLRRHFHRLMLHGRYIFPLSEKLERSSVSPSTAEPELSIVF 355  
DB 301 YAFVGERFRKYLRRHFHRLMLHGRYIFPLSEKLERSSVSPSTAEPELSIVF 355  
RESULT 11

ABB56341  
ID ABB56341 standard; Protein; 355 AA.  
XX  
XX ABB56341;  
AC  
XX  
XX 18-FEB-2002 (first entry)  
DT  
XX  
XX Non-endogenous human GPCR protein, SEQ ID NO: 475.  
DE  
XX  
XX Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;  
KW constitutively activated GPCR; agonist; disease.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX WO200177172-A2.  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 05-APR-2001; 2001WO-US11098.  
PF  
XX  
XX 07-APR-2000; 2000US-195747P.  
PR  
XX  
XX (AREN-) ARENA PHARM INC.  
PA  
XX  
XX Lehmann-Bruinsma K, Liaw CW, Lin I;  
PI WPI; 2001-648759/74.  
XX N-PSDB; ABI97977.  
DR  
XX  
XX Identifying agonists of G protein-coupled receptors (GPCRs) for use in  
PT disease treatment, comprises contacting candidate compounds with  
PT versions of GPCRs -  
XX  
XX Claim 1; Page 276-277; 394pp; English.  
XX  
XX The invention relates to G protein-coupled receptors (GPCRs) for which  
CC endogenous ligand has been identified. Non-endogenous  
CC constitutively activated versions of known GPCRs are used in the  
CC invention for the direct identification of candidate compounds as  
CC receptor agonists, inverse agonists or partial agonists. Such  
CC agonists are useful as therapeutic agents for diseases or disorders  
CC associated with GPCRs. The present sequence is a non-endogenous  
CC version of a known human GPCR.  
XX  
XX  
SQ Sequence 355 AA;  
Query Match 99.6%; Score 1847; DB 22; Length 355;  
Best Local Similarity 99.7%; Pred. No. 3.6e-200;  
Matches 354; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 1 MTTSLDVTETFGTSTYYDDVGLCCERADTRALMAQFVPPYSLVFTVGLGNVVMYMI 60  
DB 1 MTTSLDVTETFGTSTYYDDVGLCCERADTRALMAQFVPPYSLVFTVGLGNVVMYMI 60  
OY 61 KTRRLRIMNTIYLNLAIISDLFLVTLFPWIIHYVGNHNVFGHGMCKLLSGFYHGLYSE 120  
DB 61 KTRRLRIMNTIYLNLAIISDLFLVTLFPWIIHYVGNHNVFGHGMCKLLSGFYHGLYSE 120  
OY 121 IFFIILLTDRIALYHAFAALRARTVETGVTSTYTWGLAVLAALPERIFETEELPEE 180  
DB 121 IFFIILLTDRIALYHAFAALRARTVETGVTSTYTWGLAVLAALPERIFETEELPEE 180  
OY 181 TICSALYPEDYVYWRNHFHTLMTIFCLVPLPLVNAICTGTGIKTLRCPKSKKRYAIRL 240  
DB 181 TICSALYPEDYVYWRNHFHTLMTIFCLVPLPLVNAICTGTGIKTLRCPKSKKRYAIRL 240  
OY 241 IFVIMAVFEIFMTPTYNVALILSSYOSILFGNDCERKHLDVLMVTEVLAISHCCNMPYI 300  
DB 241 IFVIMAVFEIFMTPTYNVALILSSYOSILFGNDCERKHLDVLMVTEVLAISHCCNMPYI 300  
OY 301 YAFVGERFRKYLRRHFHRLMLHGRYIFPLSEKLERSSVSPSTAEPELSIVF 355  
DB 301 YAFVGERFRKYLRRHFHRLMLHGRYIFPLSEKLERSSVSPSTAEPELSIVF 355



DB 301 YAFVGERRKYLRRHFFHRLMLHLCRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355

RESULT 12  
AAM51744  
ID AAM51744 standard; Protein: 355 AA.  
AC AAM51744;  
XX 28-SEP-1998 (first entry)  
XX Human C-C chemokine receptor 3.  
XX  
XX C-C chemokine receptor 3; CCR3; Bos L2; human;  
XX G protein-coupled receptor; leukocyte; antibody; antagonist;  
XX inflammation; allergy; asthma; graft rejection; infection;  
XX autoimmune disease; drug screening; therapy.  
XX Homo sapiens.  
XX  
XX  
XX Key Location/Qualifiers  
XX  
XX Misc-difference 24 /note= "conserved cysteine residue"  
XX Misc-difference 106 /note= "conserved cysteine residue"  
XX Misc-difference 183 /note= "conserved cysteine residue"  
XX Misc-difference 273 /note= "conserved cysteine residue"  
XX Peptide 130..138 /note= "conserved cysteine residue"  
XX Modified-site 231 /note= "C-C chemokine receptor conserved motif"  
XX Modified-site 333 /note= "protein kinase C phosphorylation site"  
XX Modified-site /note= "protein kinase C phosphorylation site"  
XX  
XX W09814480-A1.  
XX  
XX 09-APR-1998.  
XX  
XX 24-SEP-1997; 97WO-US17103.  
XX  
XX 30-SEP-1996; 96US-0720565.  
XX  
XX (LEUK-) LEUKOSITE INC.  
XX  
XX Mackay CR, Ponath PD;  
XX MPI: 1998-286418/25.  
XX N-PSDB; AAV07402.  
XX  
XX Antibodies to chemokine receptor-3 protein - useful for diagnosis  
XX and treatment of inflammatory conditions, e.g. allergy, asthma,  
XX autoimmune disease, graft rejection or cancer  
XX  
XX Example 2; Fig 1A-C; 185pp; English.  
XX  
XX This polypeptide comprises novel human C-C chemokine receptor 3,  
XX also designated CCR-3, CCR3 or Bos L2, that binds and mediates  
XX chemotaxis in response to chemokines such as eotaxin, RANTES and  
XX MCP-3. Its amino acid sequence was deduced from an isolated  
XX genomic DNA sequence (see AAV07402). It differs slightly from the  
XX sequence (see AAM51745) deduced from a cDNA clone (see AAV07403); a  
XX consensus sequence for CCR-3 is provided (see AAM51746). The  
XX invention relates to isolated and/or recombinant nucleic acids  
XX encoding CCR-3, isolated or recombinant CCR-3 polypeptides,  
XX recombinant nucleic acid constructs, host cells useful for  
XX production of recombinant CCR-3 proteins, to antibodies reactive  
XX with the receptors, and to methods of using these products to  
XX identify ligands, antagonists and agonists of receptor function.  
XX Inhibitors of CCR-3 can be used to treat: inflammatory or allergic  
XX diseases and conditions, including respiratory allergic diseases  
XX such as asthma, allergic rhinitis, hypersensitivity lung disease,

hyper-sensitivity pneumonitis, eosinophilic pneumonia (e.g. Loeffler's syndrome, chronic eosinophilic pneumonia, interstitial lung disease (ILD) e.g. idiopathic pulmonary fibrosis or ILD associated with rheumatoid arthritis, systemic lupus erythematosus, ankylosing spondylitis, systemic sclerosis, Sjogren's syndrome, polymyositis or dermatomyositis), systemic anaphylaxis or hyper-sensitivity responses, drug allergy, insect sting allergy, inflammatory bowel disease, such as Crohn's disease and ulcerative colitis, spondyloarthritis, scleroderma, psoriasis, inflammatory dermatosis such as dermatitis, eczema, atopic dermatitis, allergic contact dermatitis, urticaria, vasculitis (e.g. necrotizing, cutaneous and hyper-sensitivity vasculitis); eosinophilic myositis, and eosinophilic fasciitis; autoimmune diseases such as rheumatoid arthritis, psoriatic arthritis, multiple sclerosis, systemic lupus erythematosus, myasthenia gravis, juvenile onset diabetes, glomerulonephritis, autoimmune thyroiditis and Behcet's disease; CC graft rejection, including allograft rejection or graft-versus-host disease; cancers with leukocyte infiltration of the skin or organs; CC and also reperfusion injury, atherosclerosis, certain haematologic malignancies, septic shock and endotoxic shock. Promoters of CCR-3 function can be used for treating: immunosuppression e.g. in AIDS CC patients or individuals undergoing radiation therapy, chemotherapy, CC therapy for autoimmune disease or other drug therapy, and CC immunosuppression due to congenital deficiency in receptor function or CC other causes; and infectious diseases such as parasitic diseases, CC including helminth infections, such as nematodes (round worms). CC The agents can also be used for detection and diagnosis.

SO Sequence 355 AA;

Query Match 99.6%; Score 1846; DB 19; Length 355;

Best Local Similarity 99.4%; Pred. No. 4,7e-200;

Matches 353; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTTSDVETRECTGYDVGILCKAPTRALMAQFVPLSLVTVGLGVVVMILI 60  
DB 1 MTTSDVETRECTGYDVGILCKAPTRALMAQFVPLSLVTVGLGVVVMILI 60  
QY 61 KYRRLRIMNTIYLMLAISDLLFLVLPFWIHYVGNHNVFGHGKCKLLSGFYHTGLSE 120  
DB 61 KYRRLRIMNTIYLMLAISDLLFLVLPFWIHYVGNHNVFGHGKCKLLSGFYHTGLSE 120  
QY 121 IFFILLTIDRIALVHAVFARARVYFGVITSVYTGANLALPFIPIETELLEE 180  
DB 121 IFFILLTIDRIALVHAVFARARVYFGVITSVYTGANLALPFIPIETELLEE 180  
QY 181 TICSALYEDDYYSRHFHTLMTIFCYLPLVNAICYTGIIKTLCPSSKKKRAIRL 240  
DB 181 TICSALYEDDYYSRHFHTLMTIFCYLPLVNAICYTGIIKTLCPSSKKKRAIRL 240  
QY 241 IFVNAVFEIFWTPYNAAILSSYOSILFGNDCERSKHLDMVLTVEYIANSHCAMFVI 300  
DB 241 IFVNAVFEIFWTPYNAAILSSYOSILFGNDCERSKHLDMVLTVEYIANSHCAMFVI 300  
QY 301 YAFVGERRKYLRRHFFHRLMLHLCRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355  
DB 301 YAFVGERRKYLRRHFFHRLMLHLCRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355

RESULT 13  
AAM25943  
ID AAM25943 standard; Protein: 356 AA.  
AC AAM25943;  
XX  
XX 13-MAR-1998 (first entry)  
XX  
XX Human CCR3 chemokine receptor.  
XX  
XX CCR3 chemokine; mouse; primer; PCR; amplification; antagonist; human;  
XX abnormal physiology; development; anti-viral; probe; hybridisation.  
XX  
XX Homo sapiens.

XX MO9721812-A2.  
 XX 19-JUN-1997.  
 XX 05-DEC-1996; 96MO-US19139.  
 XX 08-DEC-1995; 95US-0567882.  
 XX (SCHE ) SCHERING CORP.  
 XX Daiyaghi DJ, Hara T, Miyajima A, Schall TJ, Wang W;  
 XX Yoshimura A;  
 XX WPI; 1997-332784/30.  
 XX N-PSDB; AAT79096.  
 XX  
 XX New isolated chemokine CCR8 and chemokine receptor CCR3 - used to  
 XX develop products useful for the diagnosis and treatment of  
 XX conditions associated with abnormal physiology or development  
 XX  
 XX Claim 15; Page 60-62; 73pp; English.  
 XX  
 XX This is the amino acid sequence of a novel CCR3 chemokine receptor  
 XX isolated from a T10-activated human T-cell cDNA library using the  
 XX sequence amplified by primers AAT79097 and AAT79098 as a probe.  
 XX The encoded protein can be used to screen for (ant)agonists that bind  
 XX to the novel CCR8 chemokines (AAW25941 and AAW25942). These  
 XX (ant)agonists are useful in the treatment of conditions associated with  
 XX abnormal physiology or development.  
 XX  
 XX Sequence 356 AA;  
 SO  
 Query Match 98.5%; Score 1826.5; DB 18; Length 356;  
 Best Local Similarity 98.6%; Pred. No. 7.6e-198;  
 Matches 351; Conservative 2; Mismatches 2; Indels 1; Gaps 1;  
 QY 1 MTTSLDTVEFGTSTYDDVGLICERADTRALMAQFVPPPLYSVFTVGLGNVVMYI 60  
 DB 1 MTTSLDTVEFGTSTYDDVGLICERADTRALMAQFVPPPLYSVFTVGLGNVVMYI 60  
 QY 61 KYRRLRIMNTIYLLNLAISDLFLVLPFMIHYVRGNVFGHGCKLISGFYHTGLYSE 120  
 DB 61 KYRRLRIMNTIYLLNLAISDLFLVLPFMIHYVRGNVFGHGCKLISGFYHTGLYSE 120  
 QY 121 IFFIILLTDRYLAIVHAVALRARTVGVITSITWGLAVLAALPEFIYETEELFEE 180  
 DB 121 IFFIILLTDRYLAIVHAVALRARTVGVITSITWGLAVLAALPEFIYETEELFEE 180  
 QY 181 TICSALYPEDVYSWRHFHTLRMTFCVLPLVMAICYGTIITLLRCPSSKKRYAIRL 240  
 DB 181 TICSALYPEDVYSWRHFHTLRMTFCVLPLVMAICYGTIITLLRCPSSKKRYAIRL 240  
 QY 241 IFVIMAVFFIFMTPTVVAAILLSYOSILFGNDCERSKHLDMVLTVEVLAISH-COMNPY 299  
 DB 241 IFVIMAVFFIFMTPTVVAAILLSYOSILFGNDCERSKHLDMVLTVEVLAISH-COMNPY 299  
 QY 300 IYAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKRTSSVSPSTAEPBELSIVF 355  
 DB 301 IYAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKRTSSVSPSTAEPBELSIVF 355  
 RESULT 14  
 AAW03378  
 ID AAW03378 standard; Protein; 355 AA.  
 XX  
 XX AAW03378;  
 XX  
 XX 15-NOV-1996 (first entry)  
 XX  
 XX CC-chemokine receptor 3 consensus sequence.  
 XX  
 XX CC-chemokine receptor 3; CRP-3; Eos-12; Inhibitor; antisense;  
 KW

KW antiinflammatory; eosinophil.  
 XX Homo sapiens.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 FH Misc-difference 276 /Label= Thr, Ser  
 FT  
 XX  
 XX MO9622371-A2.  
 XX 25-JUL-1996.  
 XX 19-JAN-1996; 96MO-US00608.  
 XX 19-JAN-1995; 95US-0375199.  
 XX  
 XX (BGM ) BRIGHAM & WOMENS HOSPITAL.  
 XX (CHIL-) CHILDRENS MEDICAL CENT.  
 XX (LEOK-) LEUKOSITE INC.  
 XX Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW,  
 XX Qin S;  
 XX WPI; 1996-354528/35.  
 XX N-PSDB; AAT31336.  
 XX  
 XX Mammalian chemokine receptor-3 and related nucleic acids - useful to  
 XX identify receptor inhibitors to treat inflammatory disease, e.g.  
 XX autoimmune disorders, certain cancers, etc.  
 XX  
 XX Claim 10; Page 115-116; 153pp; English.  
 XX  
 XX A consensus amino acid sequence (AAW03378) was produced for a novel  
 XX human receptor, designated Eos 12 or C-C chemokine receptor 2 (CCR-3).  
 XX It was obt. by comparing the sequences (AAW03376-77) deduced from a  
 XX CCR-3 genomic clone (AAT31334) and a cDNA clone (AAT31335). Initial  
 XX sequence information revealed 2 regions in which the cDNA sequence  
 XX appeared to be shifted in frame, resulting in 2 sets of 4 contiguous  
 XX amino acid differences in the predicted proteins. Further sequence  
 XX analysis revealed only a single difference between the 2 open  
 XX reading frames, the genomic clone coding for threonine at position  
 XX 276 and the cDNA clone for serine.  
 XX  
 XX Sequence 355 AA;  
 SO  
 Query Match 96.1%; Score 1781; DB 17; Length 355;  
 Best Local Similarity 96.6%; Pred. No. 1.1e-192;  
 Matches 343; Conservative 0; Mismatches 12; Indels 0; Gaps 0;  
 QY 1 MTTSLDTVEFGTSTYDDVGLICERADTRALMAQFVPPPLYSVFTVGLGNVVMYI 60  
 DB 1 MTTSLDTVEFGTSTYDDVGLICERADTRALMAQFVPPPLYSVFTVGLGNVVMYI 60  
 QY 61 KYRRLRIMNTIYLLNLAISDLFLVLPFMIHYVRGNVFGHGCKLISGFYHTGLYSE 120  
 DB 61 KYRRLRIMNTIYLLNLAISDLFLVLPFMIHYVRGNVFGHGCKLISGFYHTGLYSE 120  
 QY 121 IFFIILLTDRYLAIVHAVALRARTVGVITSITWGLAVLAALPEFIYETEELFEE 180  
 DB 121 IFFIILLTDRYLAIVHAVALRARTVGVITSITWGLAVLAALPEFIYETEELFEE 180  
 QY 181 TICSALYPEDVYSWRHFHTLRMTFCVLPLVMAICYGTIITLLRCPSSKKRYAIRL 240  
 DB 181 TICSALYPEDVYSWRHFHTLRMTFCVLPLVMAICYGTIITLLRCPSSKKRYAIRL 240  
 QY 241 IFVIMAVFFIFMTPTVVAAILLSYOSILFGNDCERSKHLDMVLTVEVLAISHCCMNPY 300  
 DB 241 IFVIMAVFFIFMTPTVVAAILLSYOSILFGNDCERSKHLDMVLTVEVLAISHCCMNPY 300  
 QY 301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKRTSSVSPSTAEPBELSIVF 355  
 DB 301 YAFVGERFRKYLRRHFHRLMLHGRYIPFLPSEKLEKRTSSVSPSTAEPBELSIVF 355

RESULT 15  
AAW51746  
ID AAW51746 standard; Protein: 355 AA.  
XX  
AC AAW51746;  
XX  
DT 28-SEP-1998 (first entry)  
XX  
XX Human C-C chemokine receptor 3 consensus sequence.  
XX  
KW C-C chemokine receptor 3; CCR3; CCR3; Eos 12; human;  
KW G protein-coupled receptor; leukocyte; antibody; antagonist;  
KW inflammation; allergy; asthma; graft rejection; infection;  
KW autoimmune disease; drug screening; therapy.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Misc-difference 182 /note= "encoded by MT"  
FT Misc-difference 196 /note= "encoded by AGS"  
FT Misc-difference 197 /note= "encoded by SAT"  
FT Misc-difference 263 /note= "encoded by TSC"  
FT Misc-difference 264 /note= "encoded by YMW"  
FT Misc-difference 265 /note= "encoded by YMA"  
FT Misc-difference 266 /note= "encoded by WTC"  
FT Misc-difference 276 /note= "encoded by MMG"  
FT Misc-difference 277 /note= "encoded by ARS"  
FT Misc-difference 278 /note= "encoded by MY"  
FT Misc-difference 279 /note= "encoded by YNG"  
FT Misc-difference 315 /note= "encoded by TTS"  
XX  
FN W09814480-A1.  
XX  
PD 09-APR-1998.  
XX  
PE 24-SEP-1997; 97WO-US17103.  
XX  
PR 30-SEP-1996; 96US-0720565.  
XX  
PA (LEUK-) LEUKOSITE INC.  
XX  
PI Mackay CR, Ponath PD;  
XX  
DR WPI: 1998-286418/25.  
DR N-PSDB: AAV07404.  
XX  
XX Antibodies to chemokine receptor-3 protein - useful for diagnosis  
PT and treatment of inflammatory conditions, e.g. allergy, asthma,  
PT autoimmune disease, graft rejection or cancer  
XX  
XX Disclousure: Page 138-139; 185pp; English.  
XX  
XX This amino acid sequence for human chemokine receptor-3 (CCR-3)  
CC is deduced from a consensus nucleic acid sequence (see AAV07404)  
CC constructed by alignment of a genomic DNA sequence (see AAV07402)  
CC and a cDNA clone (see AAV07403) coding for CCR-3, a novel G  
CC protein-coupled receptor that binds and mediates chemotaxis in  
CC response to chemokines such as eotaxin, RANTES and MCP-3. Sequence  
CC comparison revealed 2 regions in the cDNA sequence that appeared to  
CC be shifted in frame, resulting from an insertion of a base followed

CC by the deletion of a base, or the deletion of a base followed by the  
CC insertion of a base. These alterations resulted in 4 contiguous  
CC amino acid differences in the predicted proteins (see AAW51744 and  
CC AAW51745) at positions 263-266 and 276-279, respectively. In  
CC addition, the genomic clone codes for threonine (ACG) at position  
CC 276 and the cDNA clone for serine (AGC). CCR-3 nucleic acids,  
CC polypeptides, antibodies, agonists and antagonists are useful for  
CC diagnosis and treatment of inflammatory conditions, autoimmune  
CC diseases and infections.  
XX  
SQ Sequence 355 AA:  
QY 1 MTSIDVETGTSYDVGILCKADTRALMQFVPLYSIVTVGLGNVVMILI 60  
DB 1 MTSIDVETGTSYDVGILCKADTRALMQFVPLYSIVTVGLGNVVMILI 60  
QY 61 KYRRLIMNTIYLLNLAISDLFLVTLPEWIIHYVGNMVFSGHCKILSGFYHTGLXSE 120  
DB 61 KYRRLIMNTIYLLNLAISDLFLVTLPEWIIHYVGNMVFSGHCKILSGFYHTGLXSE 120  
QY 121 IFFIILLTIDRYLAIVHAVPALRARTVGVITSLVWGLAVLAALPEFIYETEEELFEE 180  
DB 121 IFFIILLTIDRYLAIVHAVPALRARTVGVITSLVWGLAVLAALPEFIYETEEELFEE 180  
QY 181 TLCSALYPEDPYMSWRHPTLMTEFCVLPLPLVAICGTGIIKTLCPSPKKKKAIRL 240  
DB 181 TLCSALYPEDPYMSWRHPTLMTEFCVLPLPLVAICGTGIIKTLCPSPKKKKAIRL 240  
QY 241 IFVIMAVPEIFMTVPYNAIILSSYOSILGNDCEKSHLDLMLVTEVIYASHCCMPVI 300  
DB 241 IFVIMAVPEIFMTVPYNAIILSSYOSILGNDCEKSHLDLMLVTEVIYASHCCMPVI 300  
QY 301 YAFVGERPRKYLRFHFRHLLMHLGRYIPPLPSEKLETSVSPSTAPELSIVF 355  
DB 301 YAFVGERPRKYLRFHFRHLLMHLGRYIPPLPSEKLETSVSPSTAPELSIVF 355

Search completed: June 27, 2003, 18:12:30  
Job time : 73 secs

